

## WEST Search History





DATE: Sunday, January 09, 2005

Hide?	<u>Set</u> <u>Name</u>	<u>Query</u>	<u>Hit</u> <u>Count</u>
	<i>DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=ADJ</i>		
<input type="checkbox"/>	L65	L64 and ((ferromagnetic\$5 or ferrus or ferro-magnetic\$5 or ferrite ot iron) with (ring or loop or annular\$2 or anulus or annulus))	2
<input type="checkbox"/>	L64	L63 and ((polar\$5) with (main or shap\$4 or buck\$4) with coil)	11
<input type="checkbox"/>	L63	L62 and (polar\$5)	12
<input type="checkbox"/>	L62	L61 and ((opposite or different or first or second or alternat\$3 or revers\$3 or clock-wise or clockwise or "clock wise" or "cw" or "ccw" or counter) with (current or direction))	12
<input type="checkbox"/>	L61	L60 and (buck\$5 with coil)	12
<input type="checkbox"/>	L60	L59 and ((buck\$5 or compensat\$4 or correct\$3 or shim\$4 or auxilary or auxiliary) with coil)	12
<input type="checkbox"/>	L59	L58 and (ferromagnetic\$5 or ferrus or ferro-magnetic\$5 or ferrite ot iron or ring or loop or annular\$2 or anulus or annulus)	12
<input type="checkbox"/>	L58	L57 and (stainless or stain-less or steel or aluminum or fiber or reinforced or composite)	12
<input type="checkbox"/>	L57	L56 and (shell or housing or enclosure or cylinder or cylindrical\$2 or casing)	12
<input type="checkbox"/>	L56	L55 and ((single or one or solitary) with (support or pillar or pilar or column or yoke or post or pole))	12
<input type="checkbox"/>	L55	L54 and (hub or radi\$4 or center\$4 or central\$3)	12
<input type="checkbox"/>	L54	L53 and (gussets or gusset)	12
<input type="checkbox"/>	L53	L52 and (shap\$3 with coil)	211
<input type="checkbox"/>	L52	L51 and (support or pillar or pilar or column or yoke or post or pole)	272
<input type="checkbox"/>	L51	L50 and (single or one or solitary)	347
<input type="checkbox"/>	L50	L49 and (shap\$3 with magnet\$6)	359
<input type="checkbox"/>	L49	L48 and (open)	516
<input type="checkbox"/>	L48	L47 and (shap\$3 with (coil or field or flux))	1204
<input type="checkbox"/>	L47	L7 and ((main or primary) with coil)	3103
	<i>DB=PGPB,USPT,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=ADJ</i>		
<input type="checkbox"/>	L46	L45 and (gusset)	33
<input type="checkbox"/>	L45	L8 and (shap\$4)	42647
	<i>DB=USPT; PLUR=YES; OP=ADJ</i>		
<input type="checkbox"/>	L44	L43 and (laminat\$7)	11
<input type="checkbox"/>	L43	fetzner	219
	<i>DB=USPT,PGPB,JPAB,EPAB,DWPI,TDBD; PLUR=YES; OP=ADJ</i>		

<input type="checkbox"/>	L42	L41 and (yoke or yok\$4)	0
<input type="checkbox"/>	L41	L40 not L26	12
<input type="checkbox"/>	L40	L39 and (post or support or frame or column or pillar or pole or plate or piece or fac\$4)	15
<input type="checkbox"/>	L39	L38 and (neodymium or "NdFeB")	15
<input type="checkbox"/>	L38	L37 and (steel)	246
<input type="checkbox"/>	L37	L36 and (laminat\$6)	577
<input type="checkbox"/>	L36	L35 and (wedge or wedged or pie or triang\$7)	4134
<input type="checkbox"/>	L35	L34 and (epoxy or glue or glued or adhesive or insulat\$6 or resin or attatch\$4 or atatch\$4 or fix\$4)	29623
<input type="checkbox"/>	L34	L8 and (bevel\$4 or taper\$4 or diagonal\$4 or oblique or slant\$4 or tilt\$4 or trapezoid\$4 or slop\$4 or inward\$3 or outward\$3 or downward\$3 or upward\$3 or rotat\$4)	44357
<input type="checkbox"/>	L33	(5315276  5345208  5347252  5378988)! [pn] <i>DB=USPT; PLUR=YES; OP=ADJ</i>	8
<input type="checkbox"/>	L32	5378988.pn.	1
<input type="checkbox"/>	L31	5347252.pn.	1
<input type="checkbox"/>	L30	5345208.pn.	1
<input type="checkbox"/>	L29	5315276.pn. <i>DB=USPT,PGPB,JPAB,EPAB,DWPI,TDBD; PLUR=YES; OP=ADJ</i>	1
<input type="checkbox"/>	L28	L27 and (wedge or wedged)	0
<input type="checkbox"/>	L27	L26 not L22	5
<input type="checkbox"/>	L26	L25 and (steel)	7
<input type="checkbox"/>	L25	L24 and (neodymium or "NdFeB")	16
<input type="checkbox"/>	L24	L23 and (laminat\$6)	114
<input type="checkbox"/>	L23	L9 and (bevel\$4 or taper\$4 or diagonal\$4 or oblique or slant\$4 or tilt\$4 or trapezoid\$4 or slop\$4 or inward\$3 or outward\$3 or downward\$3 or upward\$3 or rotat\$4)	955
<input type="checkbox"/>	L22	L17 and (wedge or wedged)	2
<input type="checkbox"/>	L21	L20 not L19	1
<input type="checkbox"/>	L20	L17 and (laminat\$6)	7
<input type="checkbox"/>	L19	L18 and (laminat\$6)	6
<input type="checkbox"/>	L18	L17 and (epoxy or glue or glued or adhesive or insulat\$6 or resin or attatch\$4 or atatch\$4 or fix\$4)	20
<input type="checkbox"/>	L17	L16 and (neodymium or "NdFeB")	22
<input type="checkbox"/>	L16	L15 and (steel)	302
<input type="checkbox"/>	L15	L11 and (post or support or frame or column or pillar)	787
<input type="checkbox"/>	L14	L13 and (neodymium or "NdFeB")	22
<input type="checkbox"/>	L13	L12 and (steel)	299
<input type="checkbox"/>	L12	L11 and (post or support or frame or column)	784

<input type="checkbox"/>	L11	L10 and (pole or plate or piece or fac\$4)	899
<input type="checkbox"/>	L10	L9 and (bevel\$4 or taper\$4 or diagonal\$4 or oblique or slant\$4 or tilt\$4 or trapezoid\$4 or slop\$4 or inward\$3 or outward\$3 or downward\$3 or upword\$3 or rotat\$4)	941
<input type="checkbox"/>	L9	L8 and (yoke or yok\$4)	2078
<input type="checkbox"/>	L8	L7 and (open or "c")	166414
<input type="checkbox"/>	L7	((magnetic adj resonance) or MRI or NMR)	187194
		<i>DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=ADJ</i>	
<input type="checkbox"/>	L6	L5 and (gusset)	12
<input type="checkbox"/>	L5	L4 and ((magnetic adj resonance) or MRI or NMR)	72
<input type="checkbox"/>	L4	L3 and (shap\$4 with coil)	1024
<input type="checkbox"/>	L3	(buck\$4 with coil)	4661
		<i>DB=USPT; PLUR=YES; OP=ADJ</i>	
<input type="checkbox"/>	L2	L1	219
		<i>DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=ADJ</i>	
<input type="checkbox"/>	L1	fetzner	237

END OF SEARCH HISTORY

## Hit List

Clear	Generate Collection	Print	Fwd Refs	Bkwd Refs
Generate OACS				

Search Results - Record(s) 1 through 12 of 12 returned.

☐ 1. Document ID: US 20040100261 A1

Using default format because multiple data bases are involved.

L6: Entry 1 of 12

File: PGPB

May 27, 2004

PGPUB-DOCUMENT-NUMBER: 20040100261  
PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20040100261 A1

TITLE: Cold mass support structure and helium vessel of actively shielded high field open MRI magnets

PUBLICATION-DATE: May 27, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Laskaris, Evangelos	Schenectady	NY	US	
Huang, Xianrui	Clifton Park	NY	US	
Ogle, Michele Dollar	Burnt Hills	NY	US	
Palmo, Michael A.	Ballston Spa	NY	US	
Thompson, Paul S.	Stephentown	NY	US	

US-CL-CURRENT: 324/318; 324/319, 335/216, 335/299

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	NMC	Draw D
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☐ 2. Document ID: US 6828792 B1

L6: Entry 2 of 12

File: USPT

Dec 7, 2004

US-PAT-NO: 6828792  
DOCUMENT-IDENTIFIER: US 6828792 B1

TITLE: MRI apparatus and method for imaging

DATE-ISSUED: December 7, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Danby; Gordon T.	Wading River	NY		
Wahl; William H.	Smithtown	NY		
Damadian; Raymond V.	Woodbury	NY		

Giambalvo; Anthony J.

Kings Park

NY

US-CL-CURRENT: 324/318; 324/319

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMC	Draw D
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☐ 3. Document ID: US 6617852 B1

L6: Entry 3 of 12

File: USPT

Sep 9, 2003

US-PAT-NO: 6617852

DOCUMENT-IDENTIFIER: US 6617852 B1

TITLE: MRI apparatus

DATE-ISSUED: September 9, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Danby; Gordon T.	Wading River	NY		
Linardos; John	Smithtown	NY		
Damadian; Jevan	East Northport	NY		
Damadian; Raymond V.	Woodbury	NY		

US-CL-CURRENT: 324/318; 324/322

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMC	Draw D
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☐ 4. Document ID: US 6541973 B1

L6: Entry 4 of 12

File: USPT

Apr 1, 2003

US-PAT-NO: 6541973

DOCUMENT-IDENTIFIER: US 6541973 B1

TITLE: MRI apparatus

DATE-ISSUED: April 1, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Danby; Gordon T.	Wading River	NY		
Linardos; John	Smithtown	NY		
Damadian; Jevan	East Northport	NY		
Damadian; Raymond V.	Woodbury	NY		

US-CL-CURRENT: 324/318; 324/322

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMC	Draw D
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☐ 5. Document ID: US 6496007 B1

L6: Entry 5 of 12

File: USPT

Dec 17, 2002

US-PAT-NO: 6496007

DOCUMENT-IDENTIFIER: US 6496007 B1

**\*\* See image for Certificate of Correction \*\***TITLE: MRI apparatus

DATE-ISSUED: December 17, 2002

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Damadian; Jevan	East Northport	NY		
Linardos; John	Smithtown	NY		
Danby; Gordon T.	Wading River	NY		
Damadian; Raymond V.	Woodbury	NY		

US-CL-CURRENT: 324/318; 600/415

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMC	Draws
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☐ 6. Document ID: US 6469508 B1

L6: Entry 6 of 12

File: USPT

Oct 22, 2002

US-PAT-NO: 6469508

DOCUMENT-IDENTIFIER: US 6469508 B1

TITLE: MRI apparatus

DATE-ISSUED: October 22, 2002

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Damadian; Jevan	East Northport	NY		
Linardos; John	Smithtown	NY		
Danby; Gordon T.	Wading River	NY		
Damadian; Raymond V.	Woodbury	NY		

US-CL-CURRENT: 324/318; 324/322

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMC	Draws
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☐ 7. Document ID: US 6445186 B1

L6: Entry 7 of 12

File: USPT

Sep 3, 2002

US-PAT-NO: 6445186  
DOCUMENT-IDENTIFIER: US 6445186 B1

TITLE: MRI apparatus

DATE-ISSUED: September 3, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Damadian; Jevan	East Northport	NY		
Linardos; John	Smithtown	NY		
Danby; Gordon T.	Wading River	NY		
Damadian; Raymond V.	Woodbury	NY		

US-CL-CURRENT: 324/319; 324/320

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	NUMC	Draw. De
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☐ 8. Document ID: US 6437571 B1

L6: Entry 8 of 12

File: USPT

Aug 20, 2002

US-PAT-NO: 6437571  
DOCUMENT-IDENTIFIER: US 6437571 B1

TITLE: MRI apparatus

DATE-ISSUED: August 20, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Danby; Gordon T.	Wading River	NY		
Linardos; John	Smithtown	NY		
Damadian; Jevan	East Northport	NY		
Damadian; Raymond V.	Woodbury	NY		

US-CL-CURRENT: 324/322; 324/318, 600/410

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	NUMC	Draw. De
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☐ 9. Document ID: US 6369571 B1

L6: Entry 9 of 12

File: USPT

Apr 9, 2002

US-PAT-NO: 6369571  
DOCUMENT-IDENTIFIER: US 6369571 B1

TITLE: MRI apparatus

DATE-ISSUED: April 9, 2002

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Damadian; Jevan	East Northport	NY		
Linardos; John	Smithtown	NY		
Danby; Gordon T.	Wading River	NY		
Damadian; Raymond V.	Woodbury	NY		

US-CL-CURRENT: 324/318; 324/319

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMC	Draw D
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☐ 10. Document ID: US 6335623 B1

L6: Entry 10 of 12

File: USPT

Jan 1, 2002

US-PAT-NO: 6335623

DOCUMENT-IDENTIFIER: US 6335623 B1

**\*\* See image for Certificate of Correction \*\***TITLE: MRI apparatus

DATE-ISSUED: January 1, 2002

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Damadian; Jevan	East Northport	NY		
Linardos; John	Smithtown	NY		
Danby; Gordon T.	Wading River	NY		
Damadian; Raymond V.	Woodbury	NY		

US-CL-CURRENT: 324/320; 324/319

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMC	Draw D
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☐ 11. Document ID: US 6208145 B1

L6: Entry 11 of 12

File: USPT

Mar 27, 2001

US-PAT-NO: 6208145

DOCUMENT-IDENTIFIER: US 6208145 B1

TITLE: MRI apparatus

DATE-ISSUED: March 27, 2001

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Danby; Gordon T.	Wading River	NY		
Linardos; John	Smithtown	NY		



Damadian; Jevan                      East Northport              NY  
Damadian; Raymond V.              Woodbury              NY

US-CL-CURRENT: 324/319; 324/318

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMC	Draw D
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☐ 12. Document ID: US 6201394 B1

L6: Entry 12 of 12

File: USPT

Mar 13, 2001

US-PAT-NO: 6201394

DOCUMENT-IDENTIFIER: US 6201394 B1

**\*\* See image for Certificate of Correction \*\***

TITLE: MRI apparatus

DATE-ISSUED: March 13, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Danby; Gordon T.	Wading River	NY		
Linardos; John	Smithtown	NY		
Damadian; Jevan	East Northport	NY		
Damadian; Raymond V.	Woodbury	NY		

US-CL-CURRENT: 324/319; 324/320

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMC	Draw D
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Clear	Generate Collection	Print	Fwd Refs	Bkwd Refs	Generate OACS
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Term	Documents
GUSSET	25119
GUSSETS	16882
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(L5 AND (GUSSET)).PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD.	12

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Clear	Generate Collection	Print	Fwd Refs	Bkwd Refs
Generate OACS				

Search Results - Record(s) 1 through 22 of 22 returned.

☐ 1. Document ID: US 20040254419 A1

Using default format because multiple data bases are involved.

L14: Entry 1 of 22

File: PGPB

Dec 16, 2004

PGPUB-DOCUMENT-NUMBER: 20040254419

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040254419 A1

TITLE: Therapeutic assembly

PUBLICATION-DATE: December 16, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Wang, Xingwu	Wellsville	NY	US	
Greenwald, Howard J.	Rochester	NY	US	
Lanzafame, John	Victor	NY	US	
Weiner, Michael L.	Webster	NY	US	
Connelly, Patrick R.	Rochester	NY	US	

US-CL-CURRENT: 600/8; 424/1.11, 424/422

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	NMC	Drawings
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☐ 2. Document ID: US 20040210289 A1

L14: Entry 2 of 22

File: PGPB

Oct 21, 2004

PGPUB-DOCUMENT-NUMBER: 20040210289

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040210289 A1

TITLE: Novel nanomagnetic particles

PUBLICATION-DATE: October 21, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Wang, Xingwu	Wellsville	NY	US	
Greenwald, Howard J.	Rochester	NY	US	

US-CL-CURRENT: 607/116

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw. Ds
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☐ 3. Document ID: US 20040194289 A1

L14: Entry 3 of 22

File: PGPB

Oct 7, 2004

PGPUB-DOCUMENT-NUMBER: 20040194289  
PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20040194289 A1

TITLE: Methods and apparatus for positioning permanent magnetic blocks

PUBLICATION-DATE: October 7, 2004

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Zheng, Jinsheng	Beijing	SC	CN	
Huang, Jinhua	Florence	SC	US	
Lochner, Ronald Floyd	Florence	SC	US	
Shen, Weijun	Florence	SC	US	
Uno, Hideaki	Tokyo	SC	JP	
Ward, Geer	Florence		US	
Xu, Bu-Xin	Florence		US	

US-CL-CURRENT: 29/599

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw. Ds
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☐ 4. Document ID: US 20040065563 A1

L14: Entry 4 of 22

File: PGPB

Apr 8, 2004

PGPUB-DOCUMENT-NUMBER: 20040065563  
PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20040065563 A1

TITLE: Hyperpolarized gas transport and storage devices and associated transport and storage methods using permanent magnets

PUBLICATION-DATE: April 8, 2004

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Hasson, Kenton C.	Durham	NC	US	
Happer, William	Princeton	NJ	US	
Zollinger, Geri T.K.	Chapel Hill	NC	US	

US-CL-CURRENT: 206/.7

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw. De
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☐ 5. Document ID: US 20030020578 A1

L14: Entry 5 of 22

File: PGPB

Jan 30, 2003

PGPUB-DOCUMENT-NUMBER: 20030020578

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030020578 A1

TITLE: Magnetic field generator and assembling method thereof

PUBLICATION-DATE: January 30, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Aoki, Masaaki	Takatsuki-shi		JP	
Tsuzaki, Tsuyoshi	Ibaraki-shi		JP	

US-CL-CURRENT: 335/299

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw. De
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☐ 6. Document ID: US 20030001575 A1

L14: Entry 6 of 22

File: PGPB

Jan 2, 2003

PGPUB-DOCUMENT-NUMBER: 20030001575

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030001575 A1

TITLE: C-shaped magnetic resonance imaging system

PUBLICATION-DATE: January 2, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Cheng, Illich	Richmond		CA	
Jungwirth, Paul J.	Burnaby		CA	
Otter, Alan J.	Delta		CA	
Wu, Yan	Burnaby		CA	

US-CL-CURRENT: 324/318

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw. De
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☐ 7. Document ID: US 20020086842 A1

L14: Entry 7 of 22

File: PGPB

Jul 4, 2002

PGPUB-DOCUMENT-NUMBER: 20020086842  
PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20020086842 A1

TITLE: Method for transfecting cells using a magnetic field

PUBLICATION-DATE: July 4, 2002

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Plank, Christian	Seefeld		DE	
Bergemann, Christian	Berlin		DE	

US-CL-CURRENT: 514/44; 435/320.1, 435/446, 435/455, 536/23.1, 604/20

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. De
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☐ 8. Document ID: US 20020050895 A1

L14: Entry 8 of 22

File: PGPB

May 2, 2002

PGPUB-DOCUMENT-NUMBER: 20020050895  
PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20020050895 A1

TITLE: Magnetic apparatus for MRI

PUBLICATION-DATE: May 2, 2002

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Zuk, Yuval	Haifa		IL	
Katz, Yoav	Rehovot		IL	
Katznelson, Ehud	Ramat Yishai		IL	
Rotem, Haim	Mate Asher		IL	

US-CL-CURRENT: 335/216

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. De
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☐ 9. Document ID: US 6781495 B2

L14: Entry 9 of 22

File: USPT

Aug 24, 2004

US-PAT-NO: 6781495  
DOCUMENT-IDENTIFIER: US 6781495 B2

TITLE: Magnetic field generator and assembling method thereof

DATE-ISSUED: August 24, 2004

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Aoki; Masaaki	Takatsuki			JP
Tsuzaki; Tsuyoshi	Ibaraki			JP

US-CL-CURRENT: 335/301; 324/319, 335/304

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	NMC	Drawings
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☐ 10. Document ID: US 6648130 B1

L14: Entry 10 of 22

File: USPT

Nov 18, 2003

US-PAT-NO: 6648130

DOCUMENT-IDENTIFIER: US 6648130 B1

TITLE: Hyperpolarized gas transport and storage devices and associated transport and storage methods using permanent magnets

DATE-ISSUED: November 18, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Hasson; Kenton C.	Durham	NC		
Happer; William	Princeton	NJ		
Zollinger; Geri T. K.	Chapel Hill	NC		

US-CL-CURRENT: 206/.7; 206/818, 62/3.1, 62/45.1, 62/914

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	NMC	Drawings
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☐ 11. Document ID: US 6642826 B1

L14: Entry 11 of 22

File: USPT

Nov 4, 2003

US-PAT-NO: 6642826

DOCUMENT-IDENTIFIER: US 6642826 B1

TITLE: Magnetic field generator and assembling method thereof

DATE-ISSUED: November 4, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Aoki; Masaaki	Takatsuki			JP
Tsuzaki; Tsuyoshi	Ibaraki			JP

US-CL-CURRENT: 335/299; 335/216, 335/301

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMC	Draws
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☐ 12. Document ID: US 6600401 B2

L14: Entry 12 of 22

File: USPT

Jul 29, 2003

US-PAT-NO: 6600401

DOCUMENT-IDENTIFIER: US 6600401 B2

TITLE: Magnetic apparatus for MRI

DATE-ISSUED: July 29, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Zuk; Yuval	Haifa			IL
Katz; Yoav	Rehovot			IL
Katznelson; Ehud	Ramat Yishai			IL
Rotem; Haim	Mate Asher			IL

US-CL-CURRENT: 335/299; 324/318, 324/319, 335/296, 335/306

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMC	Draws
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☐ 13. Document ID: US 6467157 B1

L14: Entry 13 of 22

File: USPT

Oct 22, 2002

US-PAT-NO: 6467157

DOCUMENT-IDENTIFIER: US 6467157 B1

TITLE: Apparatus for construction of annular segmented permanent magnet

DATE-ISSUED: October 22, 2002

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Livni; Avinoam	Haifa			IL
Katz; Yoav	Benyamina			IL

US-CL-CURRENT: 29/737; 269/13, 269/14, 29/419.2, 29/602.1, 29/607, 29/719, 29/744,  
29/759, 29/760, 29/762, 29/DIG.105, 29/DIG.95

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMC	Draws
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☐ 14. Document ID: US 6411187 B1

L14: Entry 14 of 22

File: USPT

Jun 25, 2002

US-PAT-NO: 6411187  
DOCUMENT-IDENTIFIER: US 6411187 B1

TITLE: Adjustable hybrid magnetic apparatus

DATE-ISSUED: June 25, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Rotem; Haim	Mate Asher			IL
Katznelson; Ehud	Ramat Yishai			IL

US-CL-CURRENT: 335/296; 324/319, 324/320, 335/298, 335/299, 335/306

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWC	Draw. Des
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☐ 15. Document ID: US 6275039 B1

L14: Entry 15 of 22

File: USPT

Aug 14, 2001

US-PAT-NO: 6275039  
DOCUMENT-IDENTIFIER: US 6275039 B1

TITLE: Magnetic resonance pre-polarization apparatus

DATE-ISSUED: August 14, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Young; Ian Robert	Marlborough			GB
Eastham; John Frederick	Bath			GB

US-CL-CURRENT: 324/319; 324/300, 324/306, 324/307, 324/309, 324/318

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWC	Draw. Des
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☐ 16. Document ID: US 6211676 B1

L14: Entry 16 of 22

File: USPT

Apr 3, 2001

US-PAT-NO: 6211676  
DOCUMENT-IDENTIFIER: US 6211676 B1

TITLE: MRI magnets

DATE-ISSUED: April 3, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Byrne; Alex Francis	Caversham			GB



Parker; Nicholas David  
Davies; Francis John

Leamington Spa  
Kidlington

GB  
GB

US-CL-CURRENT: 324/319; 324/320

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMC	Drawings
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☐ 17. Document ID: US 6163240 A

L14: Entry 17 of 22

File: USPT

Dec 19, 2000

US-PAT-NO: 6163240

DOCUMENT-IDENTIFIER: US 6163240 A

TITLE: Magnetic apparatus for MRI

DATE-ISSUED: December 19, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Zuk; Yuval	Haifa			IL
Katznelson; Ehud	Ramat Yishai			IL
Katz; Yoav	Rehovot			IL
Rotem; Haim	Mate Asher			IL

US-CL-CURRENT: 335/299; 324/318, 324/319, 324/320, 335/296, 335/302, 335/306

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMC	Drawings
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☐ 18. Document ID: US 6163151 A

L14: Entry 18 of 22

File: USPT

Dec 19, 2000

US-PAT-NO: 6163151

DOCUMENT-IDENTIFIER: US 6163151 A

TITLE: Apparatus and method for making nuclear magnetic measurements in a borehole

DATE-ISSUED: December 19, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Wisler; Macmillan M.	Kingwood	TX		
Schneider; David M.	Spring	TX		

US-CL-CURRENT: 324/303; 324/306

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMC	Drawings
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☐ 19. Document ID: US 5963117 A

L14: Entry 19 of 22

File: USPT

Oct 5, 1999

US-PAT-NO: 5963117

DOCUMENT-IDENTIFIER: US 5963117 A

TITLE: Opposed magnet-type magnetic circuit assembly with permanent magnets

DATE-ISSUED: October 5, 1999

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Ohashi; Ken	Fukui-ken			JP
Yoneda; Yuhito	Fukui-ken			JP
Miyata; Koji	Fukui-ken			JP
Inoue; Yuji	Tokyo			JP

US-CL-CURRENT: 335/306; 324/319, 335/296, 335/297

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw. De
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☐ 20. Document ID: US 5864275 A

L14: Entry 20 of 22

File: USPT

Jan 26, 1999

US-PAT-NO: 5864275

DOCUMENT-IDENTIFIER: US 5864275 A

TITLE: Opposed magnet-type magnetic circuit assembly with permanent magnets

DATE-ISSUED: January 26, 1999

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Ohashi; Ken	Fukui-ken			JP
Yoneda; Yuhito	Fukui-ken			JP
Miyata; Koji	Fukui-ken			JP
Inoue; Yuji	Tokyo			JP

US-CL-CURRENT: 335/306; 324/319, 335/296, 335/297, 335/298

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw. De
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☐ 21. Document ID: US 5020411 A

L14: Entry 21 of 22

File: USPT

Jun 4, 1991

US-PAT-NO: 5020411

DOCUMENT-IDENTIFIER: US 5020411 A

TITLE: Mobile assault logistic kinetmatic engagement device

DATE-ISSUED: June 4, 1991

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Rowan; Larry	Culver	CA	90230	

US-CL-CURRENT: 89/1.11; 376/319, 60/203.1, 89/8

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMC	Draw. D
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☐ 22. Document ID: CN 1404580 A, WO 200153847 A1, AU 200128228 A, US 20030001575 A1

L14: Entry 22 of 22

File: DWPI

Mar 19, 2003

DERWENT-ACC-NO: 2001-596459

DERWENT-WEEK: 200344

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TITLE: Open C-shaped permanent magnet structure for magnetic resonance imaging, comprises vertical post supporting horizontal arms of cast steel, with arms carrying pair of facing magnetised Neodymium plates

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMC	Draw. D
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Clear	Generate Collection	Print	Fwd Refs	Bkwd Refs	Generate OACS
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Term	Documents
NEODYMIUM	22772
NEODYMIUMS	0
NEODYMIA	183
NEODYMIAS	0
NDFEB	1441
NDFEBS	0
(13 AND (NDFEB OR NEODYMIUM)).USPT,PGPB,JPAB,EPAB,DWPI,TDBD.	22
(L13 AND (NEODYMIUM OR "NDFEB")).USPT,PGPB,JPAB,EPAB,DWPI,TDBD.	22

Display Format: 

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## Hit List

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Search Results - Record(s) 1 through 6 of 6 returned.

☐ 1. Document ID: US 20040254419 A1

Using default format because multiple data bases are involved.

L19: Entry 1 of 6

File: PGPB

Dec 16, 2004

PGPUB-DOCUMENT-NUMBER: 20040254419  
PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20040254419 A1

TITLE: Therapeutic assembly

PUBLICATION-DATE: December 16, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Wang, Xingwu	Wellsville	NY	US	
Greenwald, Howard J.	Rochester	NY	US	
Lanzafame, John	Victor	NY	US	
Weiner, Michael L.	Webster	NY	US	
Connelly, Patrick R.	Rochester	NY	US	

US-CL-CURRENT: 600/8; 424/1.11, 424/422

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draws
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☐ 2. Document ID: US 20030001575 A1

L19: Entry 2 of 6

File: PGPB

Jan 2, 2003

PGPUB-DOCUMENT-NUMBER: 20030001575  
PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20030001575 A1

TITLE: C-shaped magnetic resonance imaging system

PUBLICATION-DATE: January 2, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Cheng, Illich	Richmond		CA	
Jungwirth, Paul J.	Burnaby		CA	
Otter, Alan J.	Delta		CA	

Wu, Yan

Burnaby

CA

US-CL-CURRENT: 324/318

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw De
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☐ 3. Document ID: US 5963117 A

L19: Entry 3 of 6

File: USPT

Oct 5, 1999

US-PAT-NO: 5963117

DOCUMENT-IDENTIFIER: US 5963117 A

TITLE: Opposed magnet-type magnetic circuit assembly with permanent magnets

DATE-ISSUED: October 5, 1999

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Ohashi; Ken	Fukui-ken			JP
Yoneda; Yuhito	Fukui-ken			JP
Miyata; Koji	Fukui-ken			JP
Inoue; Yuji	Tokyo			JP

US-CL-CURRENT: 335/306; 324/319, 335/296, 335/297

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMC	Draw De
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☐ 4. Document ID: US 5864275 A

L19: Entry 4 of 6

File: USPT

Jan 26, 1999

US-PAT-NO: 5864275

DOCUMENT-IDENTIFIER: US 5864275 A

TITLE: Opposed magnet-type magnetic circuit assembly with permanent magnets

DATE-ISSUED: January 26, 1999

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Ohashi; Ken	Fukui-ken			JP
Yoneda; Yuhito	Fukui-ken			JP
Miyata; Koji	Fukui-ken			JP
Inoue; Yuji	Tokyo			JP

US-CL-CURRENT: 335/306; 324/319, 335/296, 335/297, 335/298

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMC	Draw De
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☐ 5. Document ID: US 5020411 A

L19: Entry 5 of 6

File: USPT

Jun 4, 1991

US-PAT-NO: 5020411

DOCUMENT-IDENTIFIER: US 5020411 A

TITLE: Mobile assault logistic kinetmatic engagement device

DATE-ISSUED: June 4, 1991

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Rowan; Larry	Culver	CA	90230	

US-CL-CURRENT: 89/1.11; 376/319, 60/203.1, 89/8

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw. De
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☐ 6. Document ID: CN 1404580 A, WO 200153847 A1, AU 200128228 A, US 20030001575 A1

L19: Entry 6 of 6

File: DWPI

Mar 19, 2003

DERWENT-ACC-NO: 2001-596459

DERWENT-WEEK: 200344

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TITLE: Open C-shaped permanent magnet structure for magnetic resonance imaging, comprises vertical post supporting horizontal arms of cast steel, with arms carrying pair of facing magnetised Neodymium plates

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw. De
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Term	Documents
LAMINAT\$6	0
LAMINAT	238
LAMINATABLE	296
LAMINATABILITY	1
LAMINATABLY	8
LAMINATAD	2
LAMINATAE	4
LAMINATAION	1

LAMINATALBE	1
LAMINATANS	3
(L18 AND (LAMINAT\$6)).USPT,PGPB,JPAB,EPAB,DWPI,TDBD.	6

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Search Results - Record(s) 1 through 1 of 1 returned.

☐ 1. Document ID: US 6211676 B1

Using default format because multiple data bases are involved.

L21: Entry 1 of 1

File: USPT

Apr 3, 2001

US-PAT-NO: 6211676

DOCUMENT-IDENTIFIER: US 6211676 B1

TITLE: MRI magnets

DATE-ISSUED: April 3, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Byrne; Alex Francis	Caversham			GB
Parker; Nicholas David	Leamington Spa			GB
Davies; Francis John	Kidlington			GB

US-CL-CURRENT: 324/319; 324/320

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	NUMC	Draw. Dg
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Clear	Generate Collection	Print	Fwd Refs	Bkwd Refs	Generate OACS
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Term	Documents
(20 NOT 19).USPT,PGPB,JPAB,EPAB,DWPI,TDBD.	1
(L20 NOT L19).USPT,PGPB,JPAB,EPAB,DWPI,TDBD.	1

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## Search Results - Record(s) 1 through 2 of 2 returned.

☐ 1. Document ID: US 20030001575 A1

Using default format because multiple data bases are involved.

L22: Entry 1 of 2

File: PGPB

Jan 2, 2003

PGPUB-DOCUMENT-NUMBER: 20030001575

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030001575 A1

TITLE: C-shaped magnetic resonance imaging system

PUBLICATION-DATE: January 2, 2003

### INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Cheng, Illich	Richmond		CA	
Jungwirth, Paul J.	Burnaby		CA	
Otter, Alan J.	Delta		CA	
Wu, Yan	Burnaby		CA	

US-CL-CURRENT: 324/318

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw Dc
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☐ 2. Document ID: CN 1404580 A, WO 200153847 A1, AU 200128228 A, US 20030001575 A1

L22: Entry 2 of 2

File: DWPI

Mar 19, 2003

DERWENT-ACC-NO: 2001-596459

DERWENT-WEEK: 200344

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TITLE: Open C-shaped permanent magnet structure for magnetic resonance imaging, comprises vertical post supporting horizontal arms of cast steel, with arms carrying pair of facing magnetised Neodymium plates

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw Dc
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Term	Documents
WEDGE	195954
WEDGES	41645
WEDGED	32785
WEDGEDS	0
(17 AND (WEDGED OR WEDGE)).USPT,PGPB,JPAB,EPAB,DWPI,TDBD.	2
(L17 AND (WEDGE OR WEDGED)).USPT,PGPB,JPAB,EPAB,DWPI,TDBD.	2

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Search Results - Record(s) 1 through 7 of 7 returned.

☐ 1. Document ID: US 20040254419 A1

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L26: Entry 1 of 7

File: PGPB

Dec 16, 2004

PGPUB-DOCUMENT-NUMBER: 20040254419  
PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20040254419 A1

TITLE: Therapeutic assembly

PUBLICATION-DATE: December 16, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Wang, Xingwu	Wellsville	NY	US	
Greenwald, Howard J.	Rochester	NY	US	
Lanzafame, John	Victor	NY	US	
Weiner, Michael L.	Webster	NY	US	
Connelly, Patrick R.	Rochester	NY	US	

US-CL-CURRENT: 600/8; 424/1.11, 424/422

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	RMC	Draw D
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☐ 2. Document ID: US 20030001575 A1

L26: Entry 2 of 7

File: PGPB

Jan 2, 2003

PGPUB-DOCUMENT-NUMBER: 20030001575  
PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20030001575 A1

TITLE: C-shaped magnetic resonance imaging system

PUBLICATION-DATE: January 2, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Cheng, Illich	Richmond		CA	
Jungwirth, Paul J.	Burnaby		CA	
Otter, Alan J.	Delta		CA	

Wu, Yan

Burnaby

CA

US-CL-CURRENT: 324/318

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw De
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☐ 3. Document ID: US 6211676 B1

L26: Entry 3 of 7

File: USPT

Apr 3, 2001

US-PAT-NO: 6211676

DOCUMENT-IDENTIFIER: US 6211676 B1

TITLE: MRI magnets

DATE-ISSUED: April 3, 2001

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Byrne; Alex Francis	Caversham			GB
Parker; Nicholas David	Leamington Spa			GB
Davies; Francis John	Kidlington			GB

US-CL-CURRENT: 324/319; 324/320

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw De
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☐ 4. Document ID: US 5963117 A

L26: Entry 4 of 7

File: USPT

Oct 5, 1999

US-PAT-NO: 5963117

DOCUMENT-IDENTIFIER: US 5963117 A

TITLE: Opposed magnet-type magnetic circuit assembly with permanent magnets

DATE-ISSUED: October 5, 1999

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Ohashi; Ken	Fukui-ken			JP
Yoneda; Yuhito	Fukui-ken			JP
Miyata; Koji	Fukui-ken			JP
Inoue; Yuji	Tokyo			JP

US-CL-CURRENT: 335/306; 324/319, 335/296, 335/297

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw De
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☐ 5. Document ID: US 5864275 A

L26: Entry 5 of 7

File: USPT

Jan 26, 1999

US-PAT-NO: 5864275

DOCUMENT-IDENTIFIER: US 5864275 A

TITLE: Opposed magnet-type magnetic circuit assembly with permanent magnets

DATE-ISSUED: January 26, 1999

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Ohashi; Ken	Fukui-ken			JP
Yoneda; Yuhito	Fukui-ken			JP
Miyata; Koji	Fukui-ken			JP
Inoue; Yuji	Tokyo			JP

US-CL-CURRENT: 335/306; 324/319, 335/296, 335/297, 335/298

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw D
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☐ 6. Document ID: US 5020411 A

L26: Entry 6 of 7

File: USPT

Jun 4, 1991

US-PAT-NO: 5020411

DOCUMENT-IDENTIFIER: US 5020411 A

TITLE: Mobile assault logistic kinetmatic engagement device

DATE-ISSUED: June 4, 1991

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Rowan; Larry	Culver	CA	90230	

US-CL-CURRENT: 89/1.11; 376/319, 60/203.1, 89/8

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw D
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☐ 7. Document ID: CN 1404580 A, WO 200153847 A1, AU 200128228 A, US 20030001575 A1

L26: Entry 7 of 7

File: DWPI

Mar 19, 2003

DERWENT-ACC-NO: 2001-596459

DERWENT-WEEK: 200344

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TITLE: Open C-shaped permanent magnet structure for magnetic resonance imaging, comprises vertical post supporting horizontal arms of cast steel, with arms carrying pair of facing magnetised Neodymium plates

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	RULE	Drawings
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Clear	Generate Collection	Print	Fwd Refs	Bkwd Refs	Generate OACS
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Term	Documents
STEEL	1350051
STEELS	39400
(25 AND STEEL).USPT,PGPB,JPAB,EPAB,DWPI,TDBD.	7
(L25 AND (STEEL)).USPT,PGPB,JPAB,EPAB,DWPI,TDBD.	7

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[Generate OACS](#)

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☐ 1. Document ID: US 20040254419 A1

Using default format because multiple data bases are involved.

L27: Entry 1 of 5

File: PGPB

Dec 16, 2004

PGPUB-DOCUMENT-NUMBER: 20040254419  
PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20040254419 A1

TITLE: Therapeutic assembly

PUBLICATION-DATE: December 16, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Wang, Xingwu	Wellsville	NY	US	
Greenwald, Howard J.	Rochester	NY	US	
Lanzafame, John	Victor	NY	US	
Weiner, Michael L.	Webster	NY	US	
Connelly, Patrick R.	Rochester	NY	US	

US-CL-CURRENT: 600/8; 424/1.11, 424/422

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	NAME	Drawings
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☐ 2. Document ID: US 6211676 B1

L27: Entry 2 of 5

File: USPT

Apr 3, 2001

US-PAT-NO: 6211676  
DOCUMENT-IDENTIFIER: US 6211676 B1

TITLE: MRI magnets

DATE-ISSUED: April 3, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Byrne; Alex Francis	Caversham			GB
Parker; Nicholas David	Leamington Spa			GB
Davies; Francis John	Kidlington			GB

US-CL-CURRENT: 324/319; 324/320

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWC	Draw	De
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☐ 3. Document ID: US 5963117 A

L27: Entry 3 of 5

File: USPT

Oct 5, 1999

US-PAT-NO: 5963117

DOCUMENT-IDENTIFIER: US 5963117 A

TITLE: Opposed magnet-type magnetic circuit assembly with permanent magnets

DATE-ISSUED: October 5, 1999

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Ohashi; Ken	Fukui-ken			JP
Yoneda; Yuhito	Fukui-ken			JP
Miyata; Koji	Fukui-ken			JP
Inoue; Yuji	Tokyo			JP

US-CL-CURRENT: 335/306; 324/319, 335/296, 335/297

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWC	Draw	De
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☐ 4. Document ID: US 5864275 A

L27: Entry 4 of 5

File: USPT

Jan 26, 1999

US-PAT-NO: 5864275

DOCUMENT-IDENTIFIER: US 5864275 A

TITLE: Opposed magnet-type magnetic circuit assembly with permanent magnets

DATE-ISSUED: January 26, 1999

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Ohashi; Ken	Fukui-ken			JP
Yoneda; Yuhito	Fukui-ken			JP
Miyata; Koji	Fukui-ken			JP
Inoue; Yuji	Tokyo			JP

US-CL-CURRENT: 335/306; 324/319, 335/296, 335/297, 335/298

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWC	Draw	De
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☐ 5. Document ID: US 5020411 A

L27: Entry 5 of 5

File: USPT

Jun 4, 1991

US-PAT-NO: 5020411

DOCUMENT-IDENTIFIER: US 5020411 A

TITLE: Mobile assault logistic kinetmatic engagement device

DATE-ISSUED: June 4, 1991

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Rowan; Larry	Culver	CA	90230	

US-CL-CURRENT: 89/1.11; 376/319, 60/203.1, 89/8

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	RMK	Draw. De
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Term	Documents
(26 NOT 22).USPT,PGPB,JPAB,EPAB,DWPI,TDBD.	5
(L26 NOT L22).USPT,PGPB,JPAB,EPAB,DWPI,TDBD.	5

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## Hit List

Clear	Generate Collection	Print	Fwd Refs	Bkwd Refs
Generate OACS				

Search Results - Record(s) 1 through 8 of 8 returned.

☐ 1. Document ID: US 5378988 A

Using default format because multiple data bases are involved.

L33: Entry 1 of 8

File: USPT

Jan 3, 1995

US-PAT-NO: 5378988

DOCUMENT-IDENTIFIER: US 5378988 A

TITLE: MRI system having high field strength open access magnet

DATE-ISSUED: January 3, 1995

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Pulyer; Yuly M.	Revere	MA	02151	

US-CL-CURRENT: 324/318; 324/319, 335/299

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMC	Draw. D.
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☐ 2. Document ID: US 5347252 A

L33: Entry 2 of 8

File: USPT

Sep 13, 1994

US-PAT-NO: 5347252

DOCUMENT-IDENTIFIER: US 5347252 A

TITLE: Magnetic device having a yoke member for generating a magnetic stray field

DATE-ISSUED: September 13, 1994

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Ries; Gunther	Erlangen			DE

US-CL-CURRENT: 335/299; 324/318, 335/301

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMC	Draw. D.
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☐ 3. Document ID: US 5345208 A

L33: Entry 3 of 8

File: USPT

Sep 6, 1994

US-PAT-NO: 5345208

DOCUMENT-IDENTIFIER: US 5345208 A

TITLE: Pole face design for a C-shaped superconducting magnet

DATE-ISSUED: September 6, 1994

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Dorri; Bizhan	Clifton Park	NY		
Laskaris; Evangelos T.	Schenectady	NY		
Bedrosian; Gary	Delmar	NY		
Xu; Bu-Xin	Florence	SC		

US-CL-CURRENT: 335/301, 324/318, 324/319, 335/216

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw. Des
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☐ 4. Document ID: US 5315276 A

L33: Entry 4 of 8

File: USPT

May 24, 1994

US-PAT-NO: 5315276

DOCUMENT-IDENTIFIER: US 5315276 A

TITLE: Compact superconducting magnet for magnetic resonance imaging

DATE-ISSUED: May 24, 1994

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Huson; F. Russell	The Woodlands	TX		
Pissanetzky; Sergio	The Woodlands	TX		
Larson, III; John D.	Palo Alto	CA		

US-CL-CURRENT: 335/216, 324/319, 335/301

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw. Des
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☐ 5. Document ID: US 5378988 A

L33: Entry 5 of 8

File: DWPI

Jan 3, 1995

DERWENT-ACC-NO: 1995-051374

DERWENT-WEEK: 199507

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TITLE: MRI magnetic resonance imaging system for medical use - has magnet

configuration that provides access for surgeon or other personnel to perform procedures on patient under support of real time MRI image

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Drawings
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☐ 6. Document ID: US 5345208 A, DE 69419833 E, EP 629871 A1, JP 07106153 A, EP 629871 B1

L33: Entry 6 of 8

File: DWPI

Sep 6, 1994

DERWENT-ACC-NO: 1994-285656

DERWENT-WEEK: 199943

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TITLE: Pole face design for C-shaped superconducting magnet - has homogenises magnet field within imaging volume, ferromagnetic core operatively connected to superconducting coil, and has non-ferromagnetic shimming trays

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Drawings
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☐ 7. Document ID: WO 9315514 A1, EP 724764 A1, US 5315276 A, JP 07503580 W

L33: Entry 7 of 8

File: DWPI

Aug 5, 1993

DERWENT-ACC-NO: 1993-258923

DERWENT-WEEK: 199636

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TITLE: Compact superconducting magnet for magnetic resonance imaging - has two flux concentrators on opposing sides of gap with adjacent injection correctors, flux return body and two flux deflectors

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Drawings
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☐ 8. Document ID: EP 525246 A1, JP 3205399 B2, DE 4223862 A1, US 5347252 A

L33: Entry 8 of 8

File: DWPI

Feb 3, 1993

DERWENT-ACC-NO: 1993-037728

DERWENT-WEEK: 200152

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TITLE: Magnetic device with yoke producing stray magnetic field - compensates for dipole movement of yoke using coil around part of latter

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Drawings
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Clear	Generate Collection	Print	Fwd Refs	Bkwd Refs	Generate OACS
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Term	Documents
"5315276"	3
"5345208"	3
"5347252"	2
"5378988"	2
("5347252"   "5378988"   "5315276"   "5345208")! [PN].USPT,PGPB,JPAB,EPAB,DWPI,TDBD.	8
((5315276  5345208  5347252  5378988)! [PN]).USPT,PGPB,JPAB,EPAB,DWPI,TDBD.	8

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Search Results - Record(s) 1 through 33 of 33 returned.

☐ 1. Document ID: US 20040267086 A1

Using default format because multiple data bases are involved.

L46: Entry 1 of 33

File: PGPB

Dec 30, 2004

PGPUB-DOCUMENT-NUMBER: 20040267086

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040267086 A1

TITLE: Sensor-equipped and algorithm-controlled direct mechanical ventricular assist device

PUBLICATION-DATE: December 30, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Anstadt, Mark P.	Augusta	GA	US	
Anstadt, George L.	Tipp City	OH	US	
MacDonald, Stuart G.	Pultneyville	NY	US	
Helfer, Jeffrey L.	Webster	NY	US	
Anstadt, George W.	Pittsford	NY	US	

US-CL-CURRENT: 600/17

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw D
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☐ 2. Document ID: US 20040100261 A1

L46: Entry 2 of 33

File: PGPB

May 27, 2004

PGPUB-DOCUMENT-NUMBER: 20040100261

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040100261 A1

TITLE: Cold mass support structure and helium vessel of actively shielded high field open MRI magnets

PUBLICATION-DATE: May 27, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Laskaris, Evangelos	Schenectady	NY	US	

Huang, Xianrui	Clifton Park	NY	US
Ogle, Michele Dollar	Burnt Hills	NY	US
Palmo, Michael A.	Ballston Spa	NY	US
Thompson, Paul S.	Stephentown	NY	US

US-CL-CURRENT: 324/318; 324/319, 335/216, 335/299

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw. D
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☐ 3. Document ID: US 20040077972 A1

L46: Entry 3 of 33

File: PGPB

Apr 22, 2004

PGPUB-DOCUMENT-NUMBER: 20040077972

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040077972 A1

TITLE: Localization mechanism for an MRI compatible biopsy device

PUBLICATION-DATE: April 22, 2004

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Tsonton, Mark	Loveland	OH	US	
C. Tinsley, John III	Cincinnati	OH	US	
Thompson, Eric W.	Pleasant Plain	OH	US	

US-CL-CURRENT: 600/564

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw. D
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☐ 4. Document ID: US 20030199785 A1

L46: Entry 4 of 33

File: PGPB

Oct 23, 2003

PGPUB-DOCUMENT-NUMBER: 20030199785

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030199785 A1

TITLE: Localization mechanism for an MRI compatible biopsy device

PUBLICATION-DATE: October 23, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Hibner, John A.	Mason	OH	US	
McCollister, Gary Todd	Blanchester	OH	US	
Beck, David Denis	Cincinnati	OH	US	
Little, David Scott	Cincinnati	OH	US	

US-CL-CURRENT: 600/562

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 5. Document ID: US 20030199754 A1

L46: Entry 5 of 33

File: PGPB

Oct 23, 2003

PGPUB-DOCUMENT-NUMBER: 20030199754  
PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20030199754 A1

TITLE: Method for using an MRI compatible biopsy device with detachable probe

PUBLICATION-DATE: October 23, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Hibner, John Anthony	Mason	OH	US	
Freeman, Lynetta Jean	Mason	OH	US	
Sebern, Elizabeth Lynn	Cincinnati	OH	US	
Pyzoha, Jessica Mary	Cincinnati	OH	US	
McCoy, Terry Darnell	Maineville	OH	US	

US-CL-CURRENT: 600/411

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 6. Document ID: US 20030199753 A1

L46: Entry 6 of 33

File: PGPB

Oct 23, 2003

PGPUB-DOCUMENT-NUMBER: 20030199753  
PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20030199753 A1

TITLE: MRI compatible biopsy device with detachable probe

PUBLICATION-DATE: October 23, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Hibner, John Anthony	Mason	OH	US	
Albercht, Thomas Edward	Cincinnati	OH	US	
Schemberger, Richard F.	Cincinnati	OH	US	
Beck, David Denis	Cincinnati	OH	US	

US-CL-CURRENT: 600/411



Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw. De
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☐ 7. Document ID: US 20030125793 A1

L46: Entry 7 of 33

File: PGPB

Jul 3, 2003

PGPUB-DOCUMENT-NUMBER: 20030125793  
PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20030125793 A1

TITLE: Bioprosthetic cardiovascular valve system

PUBLICATION-DATE: July 3, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Vesely, Ivan	Lakewood	OH	US	

US-CL-CURRENT: 623/1.11; 606/108

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw. De
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☐ 8. Document ID: US 20020145426 A1

L46: Entry 8 of 33

File: PGPB

Oct 10, 2002

PGPUB-DOCUMENT-NUMBER: 20020145426  
PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20020145426 A1

TITLE: Support structure for open MRI apparatus

PUBLICATION-DATE: October 10, 2002

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Minas, Constantinos	Slingerlands	NY	US	
Murray, F. Scott	Schenectady	NY	US	

US-CL-CURRENT: 324/318; 324/309, 324/319

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw. De
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☐ 9. Document ID: US 20010002445 A1

L46: Entry 9 of 33

File: PGPB

May 31, 2001

PGPUB-DOCUMENT-NUMBER: 20010002445  
PGPUB-FILING-TYPE: new-utility  
DOCUMENT-IDENTIFIER: US 20010002445 A1

TITLE: Bioprosthetic cardiovascular valve system

PUBLICATION-DATE: May 31, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Vesely, Ivan	Cleveland Heights	OH	US	

US-CL-CURRENT: 623/2.11; 623/2.12, 623/2.38, 623/900, 623/904

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	RMC	Drawings
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☐ 10. Document ID: US 6828792 B1

L46: Entry 10 of 33

File: USPT

Dec 7, 2004

US-PAT-NO: 6828792

DOCUMENT-IDENTIFIER: US 6828792 B1

TITLE: MRI apparatus and method for imaging

DATE-ISSUED: December 7, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Danby; Gordon T.	Wading River	NY		
Wahl; William H.	Smithtown	NY		
Damadian; Raymond V.	Woodbury	NY		
Giambalvo; Anthony J.	Kings Park	NY		

US-CL-CURRENT: 324/318; 324/319

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	RMC	Drawings
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☐ 11. Document ID: US 6717408 B2

L46: Entry 11 of 33

File: USPT

Apr 6, 2004

US-PAT-NO: 6717408

DOCUMENT-IDENTIFIER: US 6717408 B2

TITLE: Support structure for open MRI apparatus

DATE-ISSUED: April 6, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Minas; Constantinos	Slingerlands	NY		
Murray; F. Scott	Schenectady	NY		

US-CL-CURRENT: 324/318; 324/307

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw. Des.
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☐ 12. Document ID: US 6677753 B1

L46: Entry 12 of 33

File: USPT

Jan 13, 2004

US-PAT-NO: 6677753

DOCUMENT-IDENTIFIER: US 6677753 B1

**\*\* See image for Certificate of Correction \*\***TITLE: Stand-up MRI apparatus

DATE-ISSUED: January 13, 2004

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Danby; Gordon T.	Wading River	NY		
Damadian; Jevan	East Northport	NY		
Linardos; John	Smithtown	NY		
Damadian; Raymond V.	Woodbury	NY		
Hsieh; Hank	Berkeley	CA		
Wahl; William H.	Smithtown	NY		

US-CL-CURRENT: 324/318; 324/319

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw. Des.
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☐ 13. Document ID: US 6617852 B1

L46: Entry 13 of 33

File: USPT

Sep 9, 2003

US-PAT-NO: 6617852

DOCUMENT-IDENTIFIER: US 6617852 B1

TITLE: MRI apparatus

DATE-ISSUED: September 9, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Danby; Gordon T.	Wading River	NY		
Linardos; John	Smithtown	NY		
Damadian; Jevan	East Northport	NY		
Damadian; Raymond V.	Woodbury	NY		

US-CL-CURRENT: 324/318; 324/322

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMC	Draw. De
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☐ 14. Document ID: US 6541973 B1

L46: Entry 14 of 33

File: USPT

Apr 1, 2003

US-PAT-NO: 6541973

DOCUMENT-IDENTIFIER: US 6541973 B1

TITLE: MRI apparatus

DATE-ISSUED: April 1, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Danby; Gordon T.	Wading River	NY		
Linardos; John	Smithtown	NY		
Damadian; Jevan	East Northport	NY		
Damadian; Raymond V.	Woodbury	NY		

US-CL-CURRENT: 324/318; 324/322

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMC	Draw. De
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☐ 15. Document ID: US 6530952 B2

L46: Entry 15 of 33

File: USPT

Mar 11, 2003

US-PAT-NO: 6530952

DOCUMENT-IDENTIFIER: US 6530952 B2

TITLE: Bioprosthetic cardiovascular valve system

DATE-ISSUED: March 11, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Vesely; Ivan	Cleveland Heights	OH		

US-CL-CURRENT: 623/2.18; 623/1.24, 623/1.26

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMC	Draw. De
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☐ 16. Document ID: US 6496007 B1

L46: Entry 16 of 33

File: USPT

Dec 17, 2002

US-PAT-NO: 6496007

DOCUMENT-IDENTIFIER: US 6496007 B1

**\*\* See image for Certificate of Correction \*\***

TITLE: MRI apparatus

DATE-ISSUED: December 17, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Damadian; Jevan	East Northport	NY		
Linardos; John	Smithtown	NY		
Danby; Gordon T.	Wading River	NY		
Damadian; Raymond V.	Woodbury	NY		

US-CL-CURRENT: 324/318; 600/415

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KUIC	Draw. De
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☐ 17. Document ID: US 6469508 B1

L46: Entry 17 of 33

File: USPT

Oct 22, 2002

US-PAT-NO: 6469508

DOCUMENT-IDENTIFIER: US 6469508 B1

TITLE: MRI apparatus

DATE-ISSUED: October 22, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Damadian; Jevan	East Northport	NY		
Linardos; John	Smithtown	NY		
Danby; Gordon T.	Wading River	NY		
Damadian; Raymond V.	Woodbury	NY		

US-CL-CURRENT: 324/318; 324/322

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KUIC	Draw. De
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☐ 18. Document ID: US 6445186 B1

L46: Entry 18 of 33

File: USPT

Sep 3, 2002

US-PAT-NO: 6445186

DOCUMENT-IDENTIFIER: US 6445186 B1

TITLE: MRI apparatus

DATE-ISSUED: September 3, 2002

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Damadian; Jevan	East Northport	NY		
Linardos; John	Smithtown	NY		
Danby; Gordon T.	Wading River	NY		
Damadian; Raymond V.	Woodbury	NY		

US-CL-CURRENT: 324/319; 324/320

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KINC	Draw. De
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☐ 19. Document ID: US 6437571 B1

L46: Entry 19 of 33

File: USPT

Aug 20, 2002

US-PAT-NO: 6437571

DOCUMENT-IDENTIFIER: US 6437571 B1

TITLE: MRI apparatus

DATE-ISSUED: August 20, 2002

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Danby; Gordon T.	Wading River	NY		
Linardos; John	Smithtown	NY		
Damadian; Jevan	East Northport	NY		
Damadian; Raymond V.	Woodbury	NY		

US-CL-CURRENT: 324/322; 324/318, 600/410

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KINC	Draw. De
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☐ 20. Document ID: US 6369571 B1

L46: Entry 20 of 33

File: USPT

Apr 9, 2002

US-PAT-NO: 6369571

DOCUMENT-IDENTIFIER: US 6369571 B1

TITLE: MRI apparatus

DATE-ISSUED: April 9, 2002

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Damadian; Jevan	East Northport	NY		
Linardos; John	Smithtown	NY		
Danby; Gordon T.	Wading River	NY		

Damadian; Raymond V.

Woodbury

NY

US-CL-CURRENT: 324/318; 324/319

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMC	Draw D
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☐ 21. Document ID: US 6346816 B1

L46: Entry 21 of 33

File: USPT

Feb 12, 2002

US-PAT-NO: 6346816

DOCUMENT-IDENTIFIER: US 6346816 B1

TITLE: Method and apparatus for magnetic resonance imaging

DATE-ISSUED: February 12, 2002

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Damadian; Raymond V.	Woodbury	NY		
Danby; Gordon	Wading River	NY		
Persoons; James J.	East Northport	NY		

US-CL-CURRENT: 324/319; 324/320

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMC	Draw D
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☐ 22. Document ID: US 6335623 B1

L46: Entry 22 of 33

File: USPT

Jan 1, 2002

US-PAT-NO: 6335623

DOCUMENT-IDENTIFIER: US 6335623 B1

**\*\* See image for Certificate of Correction \*\***TITLE: MRI apparatus

DATE-ISSUED: January 1, 2002

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Damadian; Jevan	East Northport	NY		
Linardos; John	Smithtown	NY		
Danby; Gordon T.	Wading River	NY		
Damadian; Raymond V.	Woodbury	NY		

US-CL-CURRENT: 324/320; 324/319

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMC	Draw D
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☐ 23. Document ID: US 6315112 B1

L46: Entry 23 of 33

File: USPT

Nov 13, 2001

US-PAT-NO: 6315112

DOCUMENT-IDENTIFIER: US 6315112 B1

TITLE: Method and package for storing a pressurized container containing a drug

DATE-ISSUED: November 13, 2001

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Garrill; Karl Andrew	Hertford			GB
Haan; Richard J.	Germantown	TN		
Herman; Craig Steven	Raleigh	NC		
Walker; Richard Ian	Hertford			GB

US-CL-CURRENT: 206/204; 206/438, 206/439

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw. De
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☐ 24. Document ID: US 6208145 B1

L46: Entry 24 of 33

File: USPT

Mar 27, 2001

US-PAT-NO: 6208145

DOCUMENT-IDENTIFIER: US 6208145 B1

TITLE: MRI apparatus

DATE-ISSUED: March 27, 2001

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Danby; Gordon T.	Wading River	NY		
Linardos; John	Smithtown	NY		
Damadian; Jevan	East Northport	NY		
Damadian; Raymond V.	Woodbury	NY		

US-CL-CURRENT: 324/319; 324/318

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw. De
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☐ 25. Document ID: US 6201394 B1

L46: Entry 25 of 33

File: USPT

Mar 13, 2001



US-PAT-NO: 6201394

DOCUMENT-IDENTIFIER: US 6201394 B1

**\*\* See image for Certificate of Correction \*\***TITLE: MRI apparatus

DATE-ISSUED: March 13, 2001

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Danby; Gordon T.	Wading River	NY		
Linardos; John	Smithtown	NY		
Damadian; Jevan	East Northport	NY		
Damadian; Raymond V.	Woodbury	NY		

US-CL-CURRENT: 324/319; 324/320

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMC	Draw. D.
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☐ 26. Document ID: US 6194533 B1

L46: Entry 26 of 33

File: USPT

Feb 27, 2001

US-PAT-NO: 6194533

DOCUMENT-IDENTIFIER: US 6194533 B1

TITLE: Liner film for bulk container and container liner

DATE-ISSUED: February 27, 2001

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Nishimura; Toshihiro	Ichihara			JP
Inoue; Hiroshi	Ichihara			JP
Tsuji; Yoichiro	Ichihara			JP
Hiraoka; Takashi	Sue-cho			JP

US-CL-CURRENT: 526/348.1; 383/120, 493/189, 493/243, 493/934, 525/240, 526/348, 526/352

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMC	Draw. D.
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☐ 27. Document ID: US 6013035 A

L46: Entry 27 of 33

File: USPT

Jan 11, 2000

US-PAT-NO: 6013035

DOCUMENT-IDENTIFIER: US 6013035 A

**\*\* See image for Certificate of Correction \*\***

TITLE: Apparatus for performing biopsies and the like

DATE-ISSUED: January 11, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Unger; Evan	Tucson	AZ		
Pereles; Frederick Scott	Tucson	AZ		

US-CL-CURRENT: 600/562; 606/167

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMC	Draw. De
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☐ 28. Document ID: US 5628327 A

L46: Entry 28 of 33

File: USPT

May 13, 1997

US-PAT-NO: 5628327

DOCUMENT-IDENTIFIER: US 5628327 A

**\*\* See image for Certificate of Correction \*\***

TITLE: Apparatus for performing biopsies and the like

DATE-ISSUED: May 13, 1997

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Unger; Evan	Tucson	AZ		
Pereles; Frederick S.	Tucson	AZ		

US-CL-CURRENT: 600/562

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMC	Draw. De
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☐ 29. Document ID: US 5457831 A

L46: Entry 29 of 33

File: USPT

Oct 17, 1995

US-PAT-NO: 5457831

DOCUMENT-IDENTIFIER: US 5457831 A

TITLE: Ventilator, care cart and motorized transport each capable of nesting within and docking with a hospital bed base

DATE-ISSUED: October 17, 1995

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Foster; L. Dale	Brookville	IN		
Reeder; Ryan A.	Brookville	IN		

US-CL-CURRENT: 5/510; 5/503.1

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWC	Draw D
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☐ 30. Document ID: US 5337845 A

L46: Entry 30 of 33

File: USPT

Aug 16, 1994

US-PAT-NO: 5337845

DOCUMENT-IDENTIFIER: US 5337845 A

TITLE: Ventilator, care cart and motorized transport each capable of nesting within and docking with a hospital bed base

DATE-ISSUED: August 16, 1994

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Foster; L. Dale	Brookville	IN		
Reeder; Ryan A.	Brookville	IN		

US-CL-CURRENT: 180/11; 180/13, 180/19.1, 180/65.1, 5/510

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWC	Draw D
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☐ 31. Document ID: US 5335651 A

L46: Entry 31 of 33

File: USPT

Aug 9, 1994

US-PAT-NO: 5335651

DOCUMENT-IDENTIFIER: US 5335651 A

TITLE: Ventilator and care cart each capable of nesting within and docking with a hospital bed base

DATE-ISSUED: August 9, 1994

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Foster; L. Dale	Brookville	IN		
Reeder; Ryan A.	Brookville	IN		

US-CL-CURRENT: 128/202.13; 128/202.27, 128/897, 248/129, 296/20, 5/2.1, 5/503.1, 5/658

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWC	Draw D
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☐ 32. Document ID: US 4758812 A

L46: Entry 32 of 33

File: USPT

Jul 19, 1988

US-PAT-NO: 4758812  
DOCUMENT-IDENTIFIER: US 4758812 A

TITLE: Frame structure for a magnet system for nuclear spin tomography

DATE-ISSUED: July 19, 1988

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Forster; Helmut	Neunkirchen a. Brand			DE
Siebold; Horst	Erlangen			DE

US-CL-CURRENT: 335/301; 324/320, 335/299

Full	Title	Citation	Front	Review	Classification	Date	Reference		Claims	KWIC	Draw	De
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☐ 33. Document ID: US 4560933 A

L46: Entry 33 of 33

File: USPT

Dec 24, 1985

US-PAT-NO: 4560933  
DOCUMENT-IDENTIFIER: US 4560933 A

TITLE: Apparatus for adjustably mounting coils of a magnet system for nuclear spin tomography

DATE-ISSUED: December 24, 1985

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Forster; Helmut	Neunkirchen			DE
Siebold; Horst	Erlangen			DE
Heinzelmann; Karl-Georg	Neunkirchen			DE

US-CL-CURRENT: 324/319; 336/65

Full	Title	Citation	Front	Review	Classification	Date	Reference		Claims	KWIC	Draw	De
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Term	Documents
GUSSET	17233
GUSSETS	11940
(GUSSET AND 45).PGPB,USPT,EPAB,JPAB,DWPI,TDBD.	33
(L45 AND (GUSSET)).PGPB,USPT,EPAB,JPAB,DWPI,TDBD.	33

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L46: Entry 8 of 33

File: PGPB

Oct 10, 2002

DOCUMENT-IDENTIFIER: US 20020145426 A1

TITLE: Support structure for open MRI apparatusAbstract Paragraph:

An open or split type MRI apparatus has two axially spaced magnet coil half sections separated and supported by a compact support structure. Only two diametrically opposed supports are needed to react the high axial and torsional loads produced or received by the MRI apparatus. One support is loaded under pure compression, and the other support is loaded under compression and tension.

Summary of Invention Paragraph:

[0001] The present invention relates in general to structural supports for magnetic resonance imaging (MRI) apparatus and relates in particular to an open MRI apparatus having axially-spaced pairs of magnet coils supported by a pair of diametrically opposed supports.

Summary of Invention Paragraph:

[0002] An MRI magnet is characterized as open when there is an accessible, room temperature, physical gap provided between a pair of superconducting magnet coils. An open MRI magnet is desirable as it improves patient comfort and accessibility as compared to closed MRI magnets which many patients consider uncomfortable and which limit patient access.

Summary of Invention Paragraph:

[0003] In order to provide the desired openness and create an open gap around a patient imaging region, a pair of magnet coil assemblies can be separated into two axially-spaced half sections. The half sections of the magnet produce high attractive magnetic forces which must be reacted with a structural support system that separates and supports the half sections and prevents the magnet coils from collapsing upon one another.

Summary of Invention Paragraph:

[0004] Typical axial forces for a 1.0 T MRI magnet are in the range of about 160,000 lbs. (711 KN). Prior MRI support structures reacted these axial forces by an arrangement of axial posts which interconnected the two magnet half sections. The numerous posts limited the openness of the magnet.

Summary of Invention Paragraph:

[0005] An MRI support structure must not only axially separate and axially support the two magnet half sections during operation of the MRI apparatus, the support structure should also provide circumferential support to accommodate torsional or twisting forces which may be applied to the half sections during, for example, shipping, installation, mobile and normal operation. Moreover, it is desirable to provide such a support system which resists the transmission of floor-induced vibrations from the surrounding building structure to the MRI apparatus.

Summary of Invention Paragraph:

[0006] Accordingly, a need exists for a robust support structure for an open MRI apparatus which reacts high axial loads produced during operation of the apparatus, without adversely affecting the openness of the gap defined between two MRI magnet

half sections.

Summary of Invention Paragraph:

[0007] A further need exists for such a structure which reacts tensile and compressive loads produced by a pair of MRI half sections as well as any torsional loads which may be applied to the half sections.

Summary of Invention Paragraph:

[0008] Another need exists for a support structure for an open MRI magnet assembly which resists the transmission of vibrations from the surrounding building floor.

Summary of Invention Paragraph:

[0010] A further object of the invention is the provision of such a support structure which uses only two dramatically opposed supports for connecting together two MRI half sections to provide a high degree of openness with a minimum of patient obstruction.

Summary of Invention Paragraph:

[0013] Still another object of the invention is the provision of such a support structure which has very high bending, shear and torsional natural frequencies so as to make the MRI apparatus more tolerant to floor induced vibrations.

Summary of Invention Paragraph:

[0014] These and other objects are met by the present invention which is directed to a support structure for interconnecting and supporting a pair of half magnet sections of an MRI apparatus. The support structure includes two axially-extending supports or columns located diametrically opposite one another on the outer circumferential periphery of a pair of MRI magnet coil half sections. The opposed supports have unequal structural configurations and different cross sections and accommodate different types of loading.

Summary of Invention Paragraph:

[0016] The larger support is radially offset to one side of the magnet assembly to enable the open magnet to maintain a high degree of openness and to improve patient comfort and accessibility. In order to provide for the flow of cryogenic fluid, such as liquid helium, between the two magnet half sections, at least the larger support includes a hollow fluid flow portion.

Summary of Invention Paragraph:

[0017] To further enhance the openness of the MRI system, the outer vacuum container can be formed with an inner and outer conical portion to further reduce encroachment of the structure into the region of the imaging gap.

Brief Description of Drawings Paragraph:

[0020] FIG. 1 is a schematic perspective view of a helium vessel of an MRI apparatus constructed in accordance with the present invention;

Brief Description of Drawings Paragraph:

[0021] FIG. 2A is an axial cross sectional view of an MRI apparatus constructed in accordance with the present invention taken along section line 2A-2A of the representative helium vessel of FIG. 1. FIG. 2A is sectioned through the top half of a pair of diametrically opposed supports and is a mirror image of the lower half of the helium representative vessel of FIG. 1.

Detail Description Paragraph:

[0044] By circumferentially offsetting the two radially outer posts 54 on opposite sides of the radially inner post 50, the three posts 50, 54, 54 of the second support 18 provide a support structure which also resists and reacts circumferential torsional and shear loads. Moreover, by locating the first and second supports diametrically opposite one another and radially outwardly from the

inner magnet coil portions 28, the support structure of the magnet half sections 12, 14 has very high bending, shear and torsional natural frequencies, which makes the MRI magnet assembly more tolerant to floor induced vibrations.

Detail Description Paragraph:

[0046] It should be noted that the largest electromagnetic forces occur on the main coil 34 and shield coil 36. For this reason, the magnet half sections 12, 14 are strongly reinforced in these areas. This strength is provided by a series of concentric cylindrical structural support members and a series of radially-extending circumferentially-spaced gusset plates as described below.

Detail Description Paragraph:

[0048] Additional rigidity is provided to each of the magnet half sections 12, 14 by a series of radially-extending circumferentially-spaced gusset plates 72. Plates 72 may be welded to the inner and outer flanges 66, 68 as well as to the inner cylinder 64. From 8 to 32 (or more) gussets plates 72 may be used to reinforce the magnet half sections 12, 14 via arrangement in a spoke-like array as seen in FIG. 8.

Detail Description Paragraph:

[0052] Both the helium vessel support posts 16, 50, 54 and the thermal shield posts 94, 96 are enclosed in the outer vacuum container posts 100, 102, as seen in FIG. 5A. The posts 100, 102 rigidly interconnect the two halves of the outer vacuum container 92 together. The upper half of the container 92 is shown in FIG. 7A and the lower half is shown in FIG. 7B. A top view of the outer vacuum container is shown in FIG. 11. Post 100 is cylindrical in shape and post 102 is six sided to compliment the six sided section of the thermal shield post 96.

CLAIMS:

1. An open MRI apparatus, comprising: a first magnet half section; a second magnet half section; and a support structure interconnecting and supporting said first and second magnet half sections, said support structure comprising a first support and a second support and wherein said first support is loaded under compression and said second support is loaded under compression and tension.

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L46: Entry 32 of 33

File: USPT

Jul 19, 1988

DOCUMENT-IDENTIFIER: US 4758812 A

TITLE: Frame structure for a magnet system for nuclear spin tomography

Abstract Text (1):

A frame structure for supporting individual magnetic coils forming a magnet system used in nuclear spin tomography comprises several frame parts made from a ferromagnetic material to provide relatively simple magnetic shielding. The individual magnetic coils are concentrically aligned one behind the other along a common axis to form the magnet system. Several elongate beam, rod, or plate-shaped magnetic shielding elements extend parallel to the common axis and are evenly distributed in the circumferential direction around the magnet system thus forming a generally cylindrical surface. End-plate magnetic shielding parts having a central opening of predetermined radius are provided at the end faces of the cylindrical surface formed by the shielding elements to create a cage-like frame structure. Coil receiving elements can be used to rigidly connect the axis-parallel shielding elements with the individual magnetic coils.

Brief Summary Text (3):

Picture-producing methods have been developed in the field of medical diagnostics wherein by calculation or measurement, integral resonance signals of the nuclei of a given body element to be examined (particularly that of a human body) are analyzed. From the spatial spin density and/or the relaxation time distribution obtained in this manner, an image similar to that of X-ray tomography may then be constructed. Various techniques of this manner are well known under the designation "Nuclear Spin Tomography" (nuclear magnetic resonance tomography) or "Zeugmatography".

Brief Summary Text (5):

The base field magnet may be designed as a system of, for example, six individual ring-shaped magnetic coils which are lined up one behind the other along a common axis in the direction of the desired field orientation of the magnetic base field. A frame structure, such as the one disclosed in European Patent No. 0 102 486 A1 comprising several frame parts which extend parallel to the common axis is used for mounting and/or spatially adjusting the individual magnetic coils. In order for the desired high homogeneity of the magnetic field to be achieved, fine geometric adjustments must be made to at least one of the individual coils. European Patent No. 0 102 486 A1, mentioned above, discloses adjusting and holding means which are particularly well suited for this purpose.

Brief Summary Text (10):

According to the invention, these problems are solved by integrating into the frame structure elongate beam, rod, or plate-shaped magnetic shielding elements in connection with end-plate magnetic shielding parts. The beam, rod or plate-shaped elements represent the frame parts of the structure extending parallel to the common axis of the magnetic coils. In this manner a compact highly stable frame structure is assured wherein the frame structure performs the function of the magnetic shielding. Also the magnetic shielding frame structure allows easy access to the individual coils for fine adjustment.

Detailed Description Text (2):



Referring to FIG. 1, a first embodiment of a magnet system and frame structure used in nuclear spin resonance technology is shown. The magnet system designated generally at 2 is formed by several individual normal or superconducting coils 3-8 arranged concentrically with respect to the horizontal z-axis of an orthogonal xyz coordinate system. These coils provide a sufficiently homogeneous magnetic base field in a central imaging range, at the center of which M is located the origin of the xyz coordinate system. The magnet system 2 being cylindrical in shape allows for axial access to the homogeneous central imaging range through the end faces thereof. For example, a human body which is to be examined can be placed in the central field region along the z-axis.

Detailed Description Text (3):

The individual annular magnetic coils 3-8 of the magnet system 2 are concentrically lined up one behind the other along the z-axis and are held within a frame structure 10. Two of the magnetic coils, preferably the coils 4 and 7, located adjacent to magnetic coils 3 and 8, respectively, which are next to the end faces, are rigidly connected to the frame structure 10. The rigid connection is made by ring-shaped coil-receiving elements 12 and 13 made from a non-ferromagnetic material, for example, from a casting of an aluminum alloy. These ring-shaped elements lie in a plane perpendicular to the z-axis, i.e., in a radial plane. The remaining magnetic coils 3, 5, 6 and 8 are braced against at least one bottom part 16 through separate support devices 15 within the frame structure 10. In addition, these magnetic coils may be mutually aligned by means of special mechanical positioning devices 17 which are also attached to the frame structure 10. Examples of such support devices 15 and positioning device 17 can be seen from the above mentioned European Patent No. 0 102 486 A1.

Detailed Description Text (4):

The parts of the frame structure 10 extending parallel to the common z-axis are formed by several elongate beam, rod, or plate-shaped shielding elements 19 made from a ferromagnetic material. The arrangement of these elements 19 is shown in detail in FIGS. 2, 4 and 5. As is further shown from FIG. 1, end-plate shielding parts 21 and 22 made from a ferromagnetic material are attached to the end faces of the frame structure 10. Each end plate shielding part has a central opening 23 of a predetermined size. These shielding parts, also designated as pole irons, are required to enable sufficient shielding action. The end plates are rigidly connected to the elongate magnetic shielding elements 19, for example, by a screw connection. In this manner, a frame structure of sufficiently high mechanical stability consisting of the parts 12, 13, 19, 21 and 22 is assured.

Detailed Description Text (5):

The design of the frame structure 10 is shown more clearly from the cross sectional views of FIG. 2, taken partly in a plane through the magnetic coil 4 (left half of FIG. 2) and partly in a plane through the magnetic coil 3 (right half of FIG. 2). The ring-like coil receiving elements 12 and 13, of the frame structure 10 are identically designed. However, only element 12 is visible from FIG. 2. The ring-like coil receiving elements 12 and 13 may be composed of several segment-like individual pieces 12a to 12e made from a nonmagnetic material as shown in FIG. 2. These individual pieces may be bolted together to form the ring-like coil receiving elements 12, 13. In addition, the segment-like pieces 12a to 12e have several axial openings or feedthroughs 24 all of which have the same dimensions into which the elongate beam or rod-like magnetic shielding elements 19 may be inserted. A preferred location for the openings 24 and the elongate magnetic shielding elements 19 is chosen such that they lie on a common imaginary cylindrical surface about the z-axis surrounding the circumferential periphery of the magnet system. The openings 24 and elongate magnetic shielding elements 19 are evenly distributed around the z-axis as seen in the circumferential direction. The shape and operation of the elongate magnetic shielding elements 19 representing the parts of the frame structure 10 extending in the axial direction are known per se (see, European Pat. No. 0 141 149 A1).

Detailed Description Text (7):

A further embodiment of a frame structure 28 about a magnet system 2 is shown in FIGS. 3 and 4. The presentation of FIGS. 3 and 4 corresponds largely to the presentation given for FIGS. 1 and 2. The frame structure 28 differs essentially from the frame structure 10 of FIGS. 1 and 2 only in that it has no special coil receiving elements made from a non-magnetic material through which the magnetic coils 4 and 7 are utilized for additional stiffening of the frame structure. The frame structure 28 consists substantially of the ferromagnetic end plates 21 and 22 together with the axially extending elongate magnetic shielding elements, in this case of rod-like shape 29, to form a rigid unit. In this embodiment the frame structure 28 is formed by the cage-like shielding itself. This has the advantage that the entire frame structure surrounding the magnetic coil system can be independently moved and adjusted.

Detailed Description Text (8):

Further, it is shown in FIGS. 3 and 4 that the non-adjustable magnetic coils 4 and 7 are bolted to the bottom parts 16 through gusset plates 30 which engage the coils laterally.

Detailed Description Text (9):

FIG. 5 shows a cross sectional view through magnetic coil 5 of a further frame structure 40 about the magnetic system indicated in FIG. 1. The frame structure 40 is comparable to the frame structure 28 in that it is composed only of ferromagnetic shielding parts. Accordingly, frame structure 40 contains several elongate magnetic plate-shaped shielding elements 41 to 46 which longitudinally extend in the direction of the z-axis and are spaced at their adjacent longitudinal sides by small spaces 47. Thus the several shielding elements 41 to 46 form, for the most part a closed tubular shielding enclosure which is mechanically held together by means of ferromagnetic front plates which are not visible in the figure but may correspond, for example, to the end plates 21 and 22 according to FIG. 1. The individual magnetic coils can then be connected to the frame structure 40 through support elements 48 and 49 as well as holding and adjusting elements 50 to 52.

Detailed Description Text (10):

According to the embodiment shown in FIG. 5 the magnetic shielding element frame structure 40 has approximately a hexagonally interior cross section for receiving the individual magnetic coils of the magnet system. It goes without saying that other polygons may be formed by a corresponding number of elongate magnetic plate-shaped shielding elements without detracting from the invention.

Detailed Description Text (11):

According to the invention, a ferromagnetic return is co-integrated into a cage-like frame structure about a system of several ring-shaped magnetic coils. The mutually spaced ferromagnetic shielding elements which may have cross section dimensions other than those shown in the figures, represent the axial parts of the frame structure and are connected to each other by means of two ferromagnetic end plates on the end faces thereof. The frame structures of this invention are relatively easy to assemble in situ. Further, they ensure secure mounting of the individual ring-shaped magnetic coils while simultaneously allowing for fine adjustment.

## CLAIMS:

1. In a frame structure with devices for supporting and for adjusting ring-shaped magnetic coils of a magnet system which are lined up one behind the other along a common axis, which magnet system generates a homogenous magnetic base field for an installation used in nuclear spin tomography, said frame structure including a plurality of frame parts extending parallel to the axis, the improvement

comprising:

(a) said frame parts extending parallel to the axis being elongate magnetic shielding elements disposed on an imaginary cylindrical surface surrounding the magnet system and distributed regularly in the circumferential direction forming a cage-like structure;

(b) said frame parts being mechanically connected with means for supporting and adjusting the ring-shaped magnetic coils of the magnet system within the frame structure;

(c) at least one ring-like coil receiving element made of a non-ferromagnetic material rigidly connecting the individual magnetic coils to the elongate magnetic shielding elements extending parallel to the axis; and

(d) a plate shaped magnetic shielding part with a central opening of predetermined radius at each of the end faces of said cage-like frame structure.

2. A frame structure according to claim 1 wherein said elongate magnetic shielding elements extending parallel to the axis in conjunction with said plate-shaped magnetic shielding parts at each of the end faces of said cage like structure alone form the frame structure.

5. A frame structure according to claim 1 wherein said elongate magnetic shielding elements are of a beam-shape.

6. A frame structure according to claim 1 wherein said elongate magnetic shielding elements are of a rod-shaped.

7. A frame structure according to claim 1 wherein said elongate magnetic shielding elements are of a plate-shape.

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L46: Entry 33 of 33

File: USPT

Dec 24, 1985

DOCUMENT-IDENTIFIER: US 4560933 A

TITLE: Apparatus for adjustably mounting coils of a magnet system for nuclear spin tomography

Brief Summary Text (5):

U.S. Pat. No. 4,315,216 discloses a magnet system for generating a base field, which system comprises four ring-shaped magnet coils which are aligned along a common horizontal axis. Since, as is well known, the homogeneity of the field of these coils must meet stringent requirements and should not vary, for instance, more than 0.01% of the magnetic field strength in the entire measuring volume, the positions and orientations of individual coils of the magnet system must be finely adjustable. Such adjustability is necessary even in cases of the highest manufacturing precision with respect to the magnet coils in order to compensate, for instance, the influence of iron parts in the vicinity of the magnet system. Each of the four magnet coils has maximally three degrees of freedom of translation and two degrees of freedom of rotation. Accordingly, a number of devices must be provided for mutually aligning the individual magnet coils. In this magnet system, all four adjustable magnet coils are supported on a common base plate. At one end face of each of the magnet coils are fastened four circumferentially equispaced plate-shaped elements which project radially outwardly. Corresponding plate-shaped elements of the four magnet coils are connected to each other via a common threaded rod. The axial positions and angular orientations of the individual coils within the frame structure are precisely determined by adjusting fastening nuts, by which plate-shaped elements of the coils are secured to the respective threaded rods. Furthermore, the individual magnet coils of the known magnet system can be aligned in the vertical direction via adjusting devices engaging the base plate (see FIGS. 4a and 4b of the above-identified patent). In this known magnet system, the expenditure for adjustment is relatively large since five adjusting devices are provided for each magnet coil. Furthermore, because the individual magnet coils are connected to each other via the threaded rods, thermal length changes and vibrations of these coils lead to a de-adjustment of the entire system and thus to a corresponding degradation of the homogeneity of the magnetic base field. Readjustment is relatively difficult in this case.

Brief Summary Text (11):

(c) that each support device contains a support element in the form of a spherical sector with a spherical surface rotatably inserted in a recess of the support device fixed with respect to the respective magnet coil and with a flat side slidably resting on horizontal support surface of the frame structure, and

Detailed Description Text (3):

The base field magnet array 2 comprises advantageously six annular magnet coils 6 to 11 which are aligned with each other along the z axis. Two of these magnet coils, preferably coils 7 and 10 which are adjacent to magnet coils 6 and 11 at the ends of array 2 are rigidly connected to a frame structure 45 which comprises two support bars 13 and 14 and a holding bar 15, as shown in FIG. 2. Support bars 13 and 14 rest on a substructure 17. Magnet coils 7 and 10 are held up via support devices 19 (not shown in detail) resting on the lower bars and are fixed to these

bars by metal sheets 20, so-called gusset plates. Gusset plates 20 engage magnet coils 7 and 10 laterally via tabs 21 and are bolted to support bars 13 and 14. Stationary magnet coils 7 and 10 are each rigidly connected to holding bar 15 via a claw-like fastening element 23. Support bars 13 and 14 as well as holding bar 15 thus form, together with the magnet coils 7 and 10, the rigid frame structure 45 in which the remaining magnet coils 6, 8, 9 and 11 are arranged adjustably by devices according to the present invention.

Detailed Description Text (5):

The support points A of the adjustable magnet coils 6, 8, 9 and 11 at support bars 13 and 14 as well as the tilting of these magnet coils with respect to the x-y plane due to mechanical couple K can be adjusted by setting or adjusting devices 27 and 28. Each positionable magnet coil 6, 8, 9 and 11 has two position setting devices 27 at support bars 13 and 14 and a third setting device 28 at holding or bracing bar 15. Setting devices 27 are juxtaposed to respective support devices 19 and are connected to a channel-shaped hollow profile body 29 which is open toward the bottom and which is fastened to the lower outside edge of the respective adjustable magnet coil, for instance, coil 11, in the vicinity of a support point. A support part or bracing projection 33 fastened to the support bar 13 (or 14) extends vertically into a space 32 within this hollow profiled body 29 between two free legs 30 and 31 thereof. The position of legs 30 and 31 of body or channel 29 and, therefore, of the magnet coil 11 relative to projection 33 is modifiable via an adjusting spindle 34 which extends substantially in the z direction and which is connected to outer leg 30, i.e., to the channel leg which is further away from the geometrical center M of magnet array 2, and is supported at one end by projection 33. Between this brace or projection 33 and the other free leg 31 of channel 29 a spring element 35 is clamped. This spring element 35 pushes the magnet coil, in the de-energized state of the magnet system, against adjusting spindle 34. Therefore, there is always a force-locking connection from each positionable magnet coil 6, 8, 9 and 11 via the two respective adjusting spindles 34 to the support bars 13 and 14.

Detailed Description Text (9):

FIG. 2 shows gusset plates 20 and fastening tabs 21 via which magnet coil 7 is rigidly connected to support bars 13 and 14. Magnet coil 7 is further fastened to holding bar 15 via claw-shaped fastening element 23. In the case of the adjustable magnet coils, the gusset plates and the fastening claws are eliminated, and fastening elements 23 are replaced by adjusting devices 28, by which the magnet coils can be tilted slightly.

Other Reference Publication (1):

Double, "Manual Field Adjustment for NMR Magnet", IBM Technical Disclosure Bulletin, vol. 20, No. 4, Sep. 1977.

Other Reference Publication (2):

P. C. Lauterbur, "Image Formation by Induced Local Interactions: Examples Employing Nuclear Magnetic Resonance", Nature, vol. 242, pp. 190-191, Mar. 6, 1973.

CLAIMS:

1. In a nuclear spin tomography system having n adjustably positionable magnet coils aligned with each other along a common axis for generating a homogeneous magnetic base field, the tomography system including a mounting apparatus with a frame structure and mechanical adjusting devices secured to stationary parts of the frame structure for adjusting the translational and angular positions of the magnet coils with respect to the frame structure, the improvement comprising:

at least one additional magnet coil rigidly connected to the frame structure and aligned with the adjustably positionable magnet coils along the common axis, said adjustably positionable magnet coils each being connected to said frame structure

via three of the mechanical adjusting devices, said magnet coils forming an array having a geometrical center, each of said adjustably positionable magnet coils having a center of gravity defining a respective center of gravity plane oriented substantially parallel to the windings of the respective magnet coil and at least approximately perpendicularly to said common axis, and

support means included in the mounting apparatus for transmitting the weight of the n adjustably positionable magnet coils to said frame structure, said support means including at least n first support elements each rigidly attached to a respective adjustably positionable magnet coil and each being provided with a concave spherical surface defining a recess, said support means further including at least n second support elements each in the shape of a spherical sector having a planar surface slidably engaging a horizontal surface of said frame structure and a convex spherical surface slidably engaging the concave spherical surface of a respective first support element, the support elements associated with an adjustably positionable magnet coil defining at least one support point at which weight is transferred from the respective magnet coil to the frame structure, said support point being spaced from the center of gravity plane of the respective magnet coil on a side of such plane opposite said geometrical center, thereby giving rise to a mechanical couple operating on the respective magnet coil and tending to shift the top thereof towards said geometrical center.

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☐ 1. Document ID: US 20040100261 A1

Using default format because multiple data bases are involved.

L63: Entry 1 of 12

File: PGPB

May 27, 2004

PGPUB-DOCUMENT-NUMBER: 20040100261

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040100261 A1

TITLE: Cold mass support structure and helium vessel of actively shielded high field open MRI magnets

PUBLICATION-DATE: May 27, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Laskaris, Evangelos	Schenectady	NY	US	
Huang, Xianrui	Clifton Park	NY	US	
Ogle, Michele Dollar	Burnt Hills	NY	US	
Palmo, Michael A.	Ballston Spa	NY	US	
Thompson, Paul S.	Stephentown	NY	US	

US-CL-CURRENT: [324/318](#); [324/319](#), [335/216](#), [335/299](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	NMC	Draw D
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☐ 2. Document ID: US 6828792 B1

L63: Entry 2 of 12

File: USPT

Dec 7, 2004

US-PAT-NO: 6828792

DOCUMENT-IDENTIFIER: US 6828792 B1

TITLE: MRI apparatus and method for imaging

DATE-ISSUED: December 7, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Danby; Gordon T.	Wading River	NY		
Wahl; William H.	Smithtown	NY		
Damadian; Raymond V.	Woodbury	NY		

Giambalvo; Anthony J.

Kings Park

NY

US-CL-CURRENT: 324/318; 324/319

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMC	Drawings
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☐ 3. Document ID: US 6617852 B1

L63: Entry 3 of 12

File: USPT

Sep 9, 2003

US-PAT-NO: 6617852

DOCUMENT-IDENTIFIER: US 6617852 B1

TITLE: MRI apparatus

DATE-ISSUED: September 9, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Danby; Gordon T.	Wading River	NY		
Linardos; John	Smithtown	NY		
Damadian; Jevan	East Northport	NY		
Damadian; Raymond V.	Woodbury	NY		

US-CL-CURRENT: 324/318; 324/322

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMC	Drawings
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☐ 4. Document ID: US 6541973 B1

L63: Entry 4 of 12

File: USPT

Apr 1, 2003

US-PAT-NO: 6541973

DOCUMENT-IDENTIFIER: US 6541973 B1

TITLE: MRI apparatus

DATE-ISSUED: April 1, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Danby; Gordon T.	Wading River	NY		
Linardos; John	Smithtown	NY		
Damadian; Jevan	East Northport	NY		
Damadian; Raymond V.	Woodbury	NY		

US-CL-CURRENT: 324/318; 324/322

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMC	Drawings
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☐ 5. Document ID: US 6496007 B1

L63: Entry 5 of 12

File: USPT

Dec 17, 2002

US-PAT-NO: 6496007

DOCUMENT-IDENTIFIER: US 6496007 B1

**\*\* See image for Certificate of Correction \*\***TITLE: MRI apparatus

DATE-ISSUED: December 17, 2002

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Damadian; Jevan	East Northport	NY		
Linardos; John	Smithtown	NY		
Danby; Gordon T.	Wading River	NY		
Damadian; Raymond V.	Woodbury	NY		

US-CL-CURRENT: 324/318; 600/415

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMC	Draw. De
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☐ 6. Document ID: US 6469508 B1

L63: Entry 6 of 12

File: USPT

Oct 22, 2002

US-PAT-NO: 6469508

DOCUMENT-IDENTIFIER: US 6469508 B1

TITLE: MRI apparatus

DATE-ISSUED: October 22, 2002

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Damadian; Jevan	East Northport	NY		
Linardos; John	Smithtown	NY		
Danby; Gordon T.	Wading River	NY		
Damadian; Raymond V.	Woodbury	NY		

US-CL-CURRENT: 324/318; 324/322

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMC	Draw. De
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☐ 7. Document ID: US 6445186 B1

L63: Entry 7 of 12

File: USPT

Sep 3, 2002

US-PAT-NO: 6445186  
DOCUMENT-IDENTIFIER: US 6445186 B1

TITLE: MRI apparatus

DATE-ISSUED: September 3, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Damadian; Jevan	East Northport	NY		
Linardos; John	Smithtown	NY		
Danby; Gordon T.	Wading River	NY		
Damadian; Raymond V.	Woodbury	NY		

US-CL-CURRENT: 324/319; 324/320

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	RWC	Draw. De
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☐ 8. Document ID: US 6437571 B1

L63: Entry 8 of 12

File: USPT

Aug 20, 2002

US-PAT-NO: 6437571  
DOCUMENT-IDENTIFIER: US 6437571 B1

TITLE: MRI apparatus

DATE-ISSUED: August 20, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Danby; Gordon T.	Wading River	NY		
Linardos; John	Smithtown	NY		
Damadian; Jevan	East Northport	NY		
Damadian; Raymond V.	Woodbury	NY		

US-CL-CURRENT: 324/322; 324/318, 600/410

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	RWC	Draw. De
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☐ 9. Document ID: US 6369571 B1

L63: Entry 9 of 12

File: USPT

Apr 9, 2002

US-PAT-NO: 6369571  
DOCUMENT-IDENTIFIER: US 6369571 B1

TITLE: MRI apparatus

DATE-ISSUED: April 9, 2002

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Damadian; Jevan	East Northport	NY		
Linardos; John	Smithtown	NY		
Danby; Gordon T.	Wading River	NY		
Damadian; Raymond V.	Woodbury	NY		

US-CL-CURRENT: 324/318; 324/319

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	NUMC	Draw D
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☐ 10. Document ID: US 6335623 B1

L63: Entry 10 of 12

File: USPT

Jan 1, 2002

US-PAT-NO: 6335623

DOCUMENT-IDENTIFIER: US 6335623 B1

**\*\* See image for Certificate of Correction \*\***TITLE: MRI apparatus

DATE-ISSUED: January 1, 2002

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Damadian; Jevan	East Northport	NY		
Linardos; John	Smithtown	NY		
Danby; Gordon T.	Wading River	NY		
Damadian; Raymond V.	Woodbury	NY		

US-CL-CURRENT: 324/320; 324/319

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	NUMC	Draw D
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☐ 11. Document ID: US 6208145 B1

L63: Entry 11 of 12

File: USPT

Mar 27, 2001

US-PAT-NO: 6208145

DOCUMENT-IDENTIFIER: US 6208145 B1

TITLE: MRI apparatus

DATE-ISSUED: March 27, 2001

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Danby; Gordon T.	Wading River	NY		
Linardos; John	Smithtown	NY		

Damadian; Jevan                      East Northport              NY  
 Damadian; Raymond V.              Woodbury              NY

US-CL-CURRENT: 324/319; 324/318

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KMC	Draw D
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☐ 12. Document ID: US 6201394 B1

L63: Entry 12 of 12

File: USPT

Mar 13, 2001

US-PAT-NO: 6201394

DOCUMENT-IDENTIFIER: US 6201394 B1

**\*\* See image for Certificate of Correction \*\***

TITLE: MRI apparatus

DATE-ISSUED: March 13, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Danby; Gordon T.	Wading River	NY		
Linardos; John	Smithtown	NY		
Damadian; Jevan	East Northport	NY		
Damadian; Raymond V.	Woodbury	NY		

US-CL-CURRENT: 324/319; 324/320

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KMC	Draw D
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Term	Documents
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POLARA	17
POLARAA	2
POLARAARGE	1
POLARAAXIS	1
POLARAA-A	1
POLARABLE	2
POLARABOUT	1
POLARAD	56
POLARAED	1

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☐ 1. Document ID: US 20040100261 A1

Using default format because multiple data bases are involved.

L65: Entry 1 of 2

File: PGPB

May 27, 2004

PGPUB-DOCUMENT-NUMBER: 20040100261

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040100261 A1

TITLE: Cold mass support structure and helium vessel of actively shielded high field open MRI magnets

PUBLICATION-DATE: May 27, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Laskaris, Evangelos	Schenectady	NY	US	
Huang, Xianrui	Clifton Park	NY	US	
Ogle, Michele Dollar	Burnt Hills	NY	US	
Palmo, Michael A.	Ballston Spa	NY	US	
Thompson, Paul S.	Stephentown	NY	US	

US-CL-CURRENT: 324/318; 324/319, 335/216, 335/299

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWC	Draw D
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☐ 2. Document ID: US 6201394 B1

L65: Entry 2 of 2

File: USPT

Mar 13, 2001

US-PAT-NO: 6201394

DOCUMENT-IDENTIFIER: US 6201394 B1

**\*\* See image for Certificate of Correction \*\***

TITLE: MRI apparatus

DATE-ISSUED: March 13, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Danby, Gordon T.	Wading River	NY		
Linardos, John	Smithtown	NY		

Damadian; Jevan                      East Northport              NY  
 Damadian; Raymond V.              Woodbury              NY

US-CL-CURRENT: 324/319; 324/320

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMC	Draw D
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FERRITE	103533
FERRITES	10599
OT	549197
OTS	18870
IRON	835229
IRONS	41574
RING	2241702
RINGS	628401
LOOP	795522
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